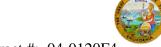
DEPARTMENT OF TRANSPORTATION

DIVISION OF ENGINEERING SERVICES Office of Structural Materials Quality Assurance and Source Inspection

Bay Area Branch 690 Walnut Ave.St. 150 Vallejo, CA 94592-1133 (707) 649-5453 (707) 649-5493



Contract #: 04-0120F4

Cty: SF/ALA Rte: 80 PM: 13.2/13.9

File #: 69.28

WELDING INSPECTION REPORT

Resident Engineer: Pursell, Gary **Report No:** WIR-002044 Address: 333 Burma Road **Date Inspected:** 31-Dec-2007

City: Oakland, CA 94607

OSM Arrival Time: 1500 **Project Name:** SAS Superstructure **OSM Departure Time:** 2300 **Prime Contractor:** American Bridge/Fluor Enterprises, a JV

Contractor: Zhenhua Port Machinery Company, Ltd (ZPMC), Changxing Island **Location:** Shanghai, China

CWI Name: CWI Present: Yes No Li Zhi Jiang **Inspected CWI report:** Yes N/A **Rod Oven in Use:** Yes No No N/A N/A **Electrode to specification:** Yes No Weld Procedures Followed: Yes No N/A N/A **Qualified Welders:** Yes No **Verified Joint Fit-up:** Yes No N/A N/A Yes No N/A **Approved Drawings:** Yes No **Approved WPS: Delayed / Cancelled:** Yes No N/A

34-0006 **Bridge No: Component:** Tower Mock-Ups

Summary of Items Observed:

The Caltrans Quality Assurance Inspector (QA), M. Paul Stovall, was present at Zhenhua Port Machinery Company (Z. P. M. C.), Changxing Island, Shanghai, China for the purpose of monitoring the fabrication of the SAS/San Francisco/Oakland Bay Bridge.

77-meter Mock-Up, Z. P. M. C., Welder, Fu Yanzie--066268, welded, weld number MUA-MA1--E/F-19; Jiang Ziaohu--066155, welded, weld number MUA-ME1-E/F-21. He Shibing--066243, welded, weld number MUA-ME1-E/F-8. The QA Inspector observed a welder, ending a weld pass, and starting up another weld pass, without removing the slag off of the previous weld pass, before starting the new one. The QA Inspector pointed this out to Z. P. M. C., Quality Control (QC) personnel, who immediately stopped the welder and told him to remove the slag before starting a new pass. That portion of the weld, where QA observed the welder doing this, was not removed. Welding Procedure Specification (WPS)-B-T-4313-TC--P4-1 was being used to make the weld. Z. P. M. C., QC personnel, during the process of checking preheat and interpass temperatures, observed a high interpass temperature, and stopped the welders to allow the material to cool down. Weld numbers MUA-MA1-E/F-11, MUA-MA1-E/F-12, MUA-MA1-E/F-12, MUA-MA1-E/F-10, MUA-MA1-E/F-9, were welded on, and the QA Inspector recorded the following amperage readings at different time intervals, from different welders: 178 amps, 182 amps, 186 amps, and 183 amps.

89-meter Mock-Up, Z. P. M. C. personnel started the fit-up of Skin C to Diaphragm to Skin B. The bevel face, landing on each mentioned member was ground on. Skin C was placed in position and removed several times, this is common with members of this size. Heaters were placed on Skin C, weld number MUA-MA1-E/F-10, using WPS-B-T-2232-Tc-U5-F, was welded by Lei Lichao--053619, the following parameters were recorded by the QA

WELDING INSPECTION REPORT

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Inspector: 302 amps, and 30.4 volts. Welder Han Xiaofeng--054467, welded, weld number MUSB-MA126-28B-1.

Summary of Conversations:

The QA Inspector spoke with Z. P. M. C., QC Inspectors, Zhang Jiadi, and Li Wen Sheng, regarding the welders not removing slag prior to welding each pass.

Comments

This report is for the purpose of determining conformance with the contract documents and is not for the purpose of making repair or fit for purpose recommendations. Should you require recommendations concerning repairs or remedial efforts please contact Mazen Wahbeh, (818) 292-0659, who represents the Office of Structural Materials for your project.

Inspected By:	Stovall, Paul	Quality Assurance Inspector
Reviewed By:	Cochran,Jim	QA Reviewer